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			FORM APPROVED
orm 3160-5	UNITED		Budget Bureau No. 1004-0135 Expires: March 31, 1993
une 1990)	DEPARTMENT OF		5. Lease Designation and Serial No.
	BUREAU OF LANI	) MANAGEMENT	NM04827 NMOSGOR
• •	SUNDRY NOTICES AND R	EPORTS ON WELLS	6. If Indian, Allottee or Tribe Name
Do not use this for	· . ·	deepen or reentry to a different reservoir	
U	se "APPLICATION FOR PERI	MIT – <sup>•</sup> for such proposal <del>s</del>	
	SUBMIT IN	TRIPLICATE	7. If Unit or CA, Agreement Designation N. INDIAN BASIN UNIT
I. Type of Well Oil Gas Well Well	X Other		8. Well Name and No.
2. Name of Operator		n ng garagan na tanàn amin'ny tanàna mandritry amin'ny tanàna mandritry amin'ny tanàna mandritry amin'ny tanàna	N. INDIAN BASIN UNIT 2
Marathon Oil C			9. API WEIL NO. 30-0/5-/0336
3. Address and Telephone N		915/682-1626	10. Field and Pool, or exploratory Area
	PILUI dilluz IA 79702 to, Soc., T., R., M.,-or Survey Descripti		Endian Basin Clypon P.
1650' FNL & 1	• • •		11. County or Parish, State
SEC. 11, T-21			
	•, =• =		EDDY COUNTY NM
12. CHECK A	APPROPRIATE BOX(s) TO	DINDICATE NATURE OF NOTICE, REP	ORT, OR OTHER DATA
TYPE OF S	UBMISSION	TYPE OF AC	TION
X Notice of	of Intent	Abandonment	Change of Plans
		X Recompletion	
Subsequ	uent Report	Plugging Back	Non-Routine Fracturing
		Casing Repair	Water Shut-Off
Final A	bandonment Notice		F
		Altering Casing	Conversion to Injection
			Dispose Water (Note: Report results of multiple completion on Well
3. Describe Proposed or Com	ipleted Operations (Clearly state all perti	nent details, and give pertinent dates, including estimated date	Completion or Recompletion Report and Log form.) of starting any proposed work. If well is directionally drill
give subsurface lo	ocations and measured and true vertical d	opths for all markers and zones pertinent to this work.)*	
WELL IS A PROP	POSED RECOMPLETION FO	DR SWD TO THE DEVONIAN.	
AN APPLICATION	N IO INJECT FLUÌDS H	AS BEEN MADE WITH THE NMOCD.	
SEE ATTACHED F	FOR DETAIL.		
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	tel (2 Nga <b>ang</b> Lang		
	he foregoing is true and correct		
Signed W. J. Ch	Man FORDAN	Tide DRILLING SUPERINTENDEN	TDate 01/04/96
(This space for Federal	l or State office use)		<u> an an an air air air an </u>
Approved by	A share and share and	Tide	$p_{11} (31) = 100$
Conditions of approva	l, if any:		Date Date

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Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictilious or fraudulent statements or representations as to any matter within its jurisdiction.

DEPAR I MENT OF THE INTERIOR         BUREAU OF LAND MANAGEMENT         APPLICATION FOR PERMIT TO DRILL OR DEEPEN         I WIT SO NOME         I WIT SO NOME         DRILL       DEEPEN         I WIT SO NOME         I WIT SO NOME         DRILL       DEEPEN         I WIT SO NOME         I WIT SO NOME         I WIT SO NOME         DRILL       DEEPEN         WILL       OTHER X         SONE       SONE         WILL OTHER X       SONE SONE         BISO THL SONE SONE       NAME OTHERATION ON CONTRACT         MARE OTHERATION ON CONTRACT SONE SONE SONE SONE SONE SONE SONE SONE	Form 3160-3 (July 1992)		ED STAT		SUBMIT IN TRIF (Other instruc reverse si	tic .	FORM APPROVED OMB NO. 1004-0136 Expires: February 28, 1995
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HANGE OF OPERATOR HARRENDE AUGUNA BADOR 1  A AT WELL KO, AND TELEPHONE KO. P.O. Box SS2, Midland, TX 79702  10.02100 of WELL (Appont location clearly and in secondance with any State requirement.*)  10.02100 of WELL (Appont location clearly and in secondance with any State requirement.*)  10.0210 of WELL (Appont location clearly and in secondance with any State requirement.*)  10.0210 of WELL (Appont location clearly and in secondance with any State requirement.*)  10.0210 of WELL (A 1650' FEL  11.33  10.000' 215 TOC & 4000'  215 TOC & 4000'  215 TOC & 4000'  215 TOC & 7080'  21  21.0100 of WELL  A 1600 OF WELL (A 160' FEL  400			DEEPEN	X			
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All actions of which open includes trans but in a locition of an all yound requirements.")       II. SEC. T. B. M. G. BLX.         All proposed proci. zons       III. SEC. T. B. M. G. BLX.         BISGO FILL       SEC DIT ANCE IN MERCHARD TOWN OR PORT OFFICE"       III. STATE         III. BISGO FILL       III. STATE       III. STATE         III. SIGN FILL       SEC DIT ANCE IN MERCHARD TOWN OR PORT OFFICE"       III. STATE         III. BISGO FILL       III. STATE       III. STATE         III. SIGN FILL       SIGN FILL       SIGN FILL       SIGN FILL STATE         III. SIGN FILL STATE       III. SIGN FILL STATE       III. SIGN FILL STATE       SIGN FILL STATE         III. SIGN FILL STATE         III. SIGN FILL STATE         III. SIGN FILL STATE         III. SIGN FILL STATE         III. SIGN FILL STATE         III. SIGN FILL STATE       SIGN FILL STATE       SIGN FILL STATE					915/682-	-1626	10. FIELD AND POOL, OR WILDCAT
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10 MILES WEST OF LAKEWOOD, NM       EDOY       NM         11 DUTINGE ROUNDED***********************************	At proposed prod. zone						
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BL DETANCE FROM PROPOSED LOCATION* TO NARASEY NELL DELLING, CONFLETED, SEE BELOW       9. PROPOSED DEPTH       20. BOTARY OR CABLE TOOLS ROTARY ROTARY         BLEWATIONS (SOW Walked FART, GK, etc.)       21. APPROX. DATE WORK WILL START* ASAP         3785' GL 3794' KB       22. APPROX. DATE WORK WILL START* ASAP         3785' GL 3794' KB       PROPOSED CASING AND CEMENTING PROGRAM         SIZE OF HOLE       GRADE, SIZE OF CASING       VECATION PROFOSED DEPTH       300 CIRC TO SURF         *12 1/4"       9.5/8"       36       2379'       1050 CIRC 180 SX         *12 1/4"       9.5/8"       36       2379'       1050 CIRC 180 SX         *12 1/4"       9.5/8"       36       2379'       1050 CIRC 180 SX         *12 1/4"       9.5/8"       36       2379'       1050 CIRC 180 SX         *12 1/4"       9.5/8"       36       2379'       1050 CIRC 180 SX         *12 1/4"       9.5/8"       36       2379'       1050 CIRC 180 SX         *12 1/4"       9.5/8"       36       2379'       1050 CIRC 180 SX         *3 3/8" - OPEN HOLE TO 11000'       WELL IS A PROPOSED SWD CONVERSION       *       *         *CASING IN PLACE       #       30.0 CIRC TO 5.16 JAGG       *       *         #18 - FIRST SWD WELL ON THIS LEASE       If proposed is to depter and p	PROPERTY OR LEASE LIN			41	60	TO THIS	
21. ELEVATIONS (Show whether DF, RT, GR, etc.)       22. APPROX. DATE WORK WILL START*         3785' GL       3794' KB         23.       PROPOSED CASING AND CEMENTING PROGRAM         3785' GL       GRADE, SIZE OF CASING         41. ELEVATIONS (Show whether DF, RT, GR, etc.)       336''         3785' GL       GRADE, SIZE OF CASING         *12. 1/4"       13.3/8"         48       236'         *12. 1/4"       13.3/8"         48       2375'         1050 CIRC 180 SX         *8.3/4"       7"         23.26       8006'         900 TOC # 4000'         6.1/8"       4.1/2"         11.35       10000'         WELL IS A PROPOSED SWD CONVERSION         *CASING IN PLACE         #18 - FIRST SWD WELL ON THIS LEASE         IEB       2.3.36         IN ABOVE SPACE DESCRIBE PROPOSED FROGRAM:       If proposal is to deepen, give data on present productive zone and proposed new productive zone. If proposal is to dril infere per directionally, give pertinent data on substrifee lockions and measured and true vertical depits. Give biowout prevenier program, if any.         4       SKONED       APE ALLING SUPERINTENDENT       DATE         (This space for Federal or State office use)       APROVAL DATE       APROVAL DATE         PERMIT N			·····	1		20. ROTARY	OR CABLE TOOLS
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INFORME FIND FROM AND CENENT IN PROFERENT         SEE OF HOLE       GRADE, SIZE OF CASING AND CENE PROT         SETTING DEPTH       QUANTITY OF CEMENT         *17       1/2"       13 3/8"       48       236'       300 CIRC TO SURF         *12       1/4"       9 5/8"       36       2379'       1050 CIRC 180 SX         *8 3/4"       7"       23,26       8006'       900 TOC # 4000'         6 1/8"       4 \/2"       11,35       10,000'       215 TOC # 7800'         3 3/8" - OPEN HOLE TO 11000'         WELL IS A PROPOSED SWD CONVERSION         CASING IN PLACE         #18 - FIRST SWD WELL ON THIS LEASE         IEB 2 306         IEB 2 306         N ABO'S SPACE DESCRIBE PROPOSED PROGRAM:       If proposal is to deepen, give data on present productive zone. If proposal is to dril i         MULLING SUPERINTENDENT       DIF         MULL FOR DOW         TITLE DRILLING SUPERINTENDENT       DATE         MULL FOR DOPN       TITLE DRILLING SUPERINTENDENT         DATE       DATE         APPROVAL DATE <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td>_</td></t<>							_
*17 1/2"       13 3/8"       48       236'       300 CIRC TO SURF         *12 1/4"       9 5/8"       36       2379'       1050 CIRC 180 SX         *8 3/4"       7"       23,26       8006'       900 TOC # 4000'         6 1/8"       4 1/2"       11,35       10000'       215 TOC # 7800'         3 3/8" - OPEN HOLE TO 11000'       WELL IS A PROPOSED SWD CONVERSION       ************************************	23.		PROPOSED CASING	G AND CI	EMENTING PROGRAM		•
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*8 3/4"       7"       23,26       8006'       900 TOC @ 4000'         6 1/8"       4 1/2"       11,35       10000'       215 TOC @ 7800'         3 3/8" - OPEN HOLE TO 11000'       WELL IS A PROPOSED SWD CONVERSION       Image: Conversion of the set of the			48		236'	300 CIF	IC TO SURF
6 1/8"       4 1/2"       11,35       10,000'       215 TOC @ 7800'         3 3/8" - OPEN HOLE TO 11000'       WELL IS A PROPOSED SWD CONVERSION       Image: Conversion and the conversing the conversion and					2379'	1050 C	IRC 180 SX
3 3/8" - OPEN HOLE TO 11000'         WELL IS A PROPOSED SWD CONVERSION         *CASING IN PLACE         #18 - FIRST SWD WELL ON THIS LEASE         Image: Comparison of the state office use)         Applexing uppend does not warrant of contrify that the splicent hold legal or equivable title to these rights is to deside which would enside the applicant hold legal or equivable title to these rights is to deside the state of the state office use)							
#18 - FIRST SWD WELL ON THIS LEASE [E8 2 253 OIL_ COPS_DIA OIL_ COPS_DIA OIL_ COPS_DIA OIL_ COPS_DIA DIST_2 API # 30-015 - 10336 N ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, give data on present productive zone and proposed new productive zone. If proposal is to drill of the proposed is to drill of the proposed is to drill of the proposed in the vertical depths. Give blowout preventer program, if any. A. SKONED <u>W.J. Duran</u> <u>FOR OPN</u> <u>TITLE</u> <u>DRILLING SUPERINTENDENT</u> <u>1/18/96</u> (This space for Federal or State office use) PERMIT NO APROVAL DATE APROVAL DATE	WELL IS A PROPO	osed SWD Convers	ION				
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API # 30-015 - 10336 N ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, give data on present productive zone and proposed new productive zone. If proposal is to drill of the period directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.					OIL CÓ	M.D	Errig Grand Hollow
A.       SIGNED       W.J. Duriture FOR DPN       DRILLING SUPERINTENDENT       1/18/96         (This space for Federal or State office use)       PERMIT NO.       APPROVAL DATE       APPROVAL DATE         Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.       Application approval does not warrant to conduct operations thereon.	API# 30-015	- 10336			Dis	T. 3	
SKGNED       W.J. Duulus       FOR OPN       DRILLING SUPERINTENDENT       1/18/96         (This space for Federal or State office use)       PERMIT NO.       APPROVAL DATE       APPROVAL DATE         Application approval does not warrant of certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.       Application approval	IN ABOVE SPACE DESCRI deepen directionally, give per	BE PROPOSED PROGRAM; rtinent data on subsurface locat	If proposal is to dee ions and measured and	epen, give i true verti	data on present productive ze cal depths. Give blowout pre	one and propos venter program	ed new productive zone. If proposal is to drill o a, if any.
OKING       DATE         (This space for Federal or State office use)         PERMIT NO.       APPROVAL DATE         Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.	24.	Duncie					
PERMIT NO APPROVAL DATEApproval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.			<u>UPN</u> 1		ILLING SUPERINTE		1/18/96
Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.	(This space for Federal of	or State office use)					
					APPROVAL DATE		
	Application approval does n		t holds legal or equitable tit	tle to those ri	ights in the subject lease which wo	uld entitle the appl	icant to conduct operations thereon.
	Application approval does n		t holds legal or equitable tit	tle to those ri	ights in the subject lease which wo	uld entitle the appl	icant to conduct operations thereon.

"See instructions On Reverse Side Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

#### Thirteen Point Surface Use Plan MARATHON OIL COMPANY

#### North Indian Basin Unit #2 Sec. 25, T-21-S, R-23-E Eddy County, New Mexico

Existing Roads: Refer to Vicinity Lease Map.

1.

- a. The proposed wellsite is staked and the surveyor's plat is attached.
- b. To reach the location from Carlsbad, New Mexico: Follow Hwy 285 North of Carlsbad 14 miles. Turn West on Queen's highway (NM 137) for 8.8 miles. Turn right on NM 401 for 5 miles, turn right on Gray Oak Road for 2 miles. Turn right on existing lease road for .3 miles into location.
- c. Existing roads within a one-mile radius (refer to Vicinity Lease Map).
- d. The existing road will be maintained as necessary to provide access-during the drilling operation.
- 2. <u>Planned Access Road</u>: Refer to Vicinity Lease Map.

Access will be by existing lease roads. Construction plans will require blading and rolling the road and pad. No access road will be required. The access road will enter the drilling pad on the southwest corner. The drilling location will have a V-door facing east. No new pad will be constructed as this is a recompletion.

- 3. <u>Location of Existing Wells</u>: See Vicinity Lease Map.
- 4. Location of Existing and Proposed Production Facilities within a one-mile radius:
  - a. Existing: There are 12 oil wells operated by Marathon within a one-mile radius of the proposed location. These locations have production facilities including separators, condensate storage tanks and location drips. Marathon operates a variety of dehydrators, meter runs, and several gathering lines in the one-mile radius.
  - b. <u>New Facilities</u>: The proposed location will have a produced water manifold and collection battery. The actual equipment and its configuration will be determined after the well is completed.
  - c. Rehabilitation of disturbed areas no longer needed for operations will be accomplished by grading, levelling and seeding as recommended.

#### A. P. D. (cont.) Thirteen Point Surface Use Plan North Indian Basin Unit No. 2

- 5. Location and Type of Water Supply:
  - a. Source: Indian Basin Gas Plant, SW/4, NE/4, Sec. 23, T-21-S, R-23-E.

- b. The water will be pumped thru 3" plastic line over existing roads to the well location. No new construction will be required on/along the water route.
- c. No water well will be drilled on this location.

. .....

#### 6. Source of Construction Materials:

а.

No new construction will be required for this re-entry.

#### 7. Methods of Handling Waste Material Disposal:

a. Cuttings - will be deposited in the reserve pit, a 75' x 75' reserve pit will be dug and lined to hold drilling fluids and cuttings.

- b. Drilling fluids contained in reserve pit and allowed to evaporate. Free water will be removed and transported to an approved disposal site to accelerate pit drying.
- c. Produced fluids none anticipated.
- d. A portable chemical toilet will be provided.
- e. Garbage and other waste material garbage and trash will be stored in a receptacle on location and periodically hauled to an approved sanitary landfill.
- f. After the rig moves out, all materials not necessary for operations will be removed. Pits will be backfilled and levelled. The location will be cleaned of all trash and debris.
- 8. <u>Ancillary Facilities</u>: Camp facilities will not be required. Portable trailers will be on location to house a company drilling foreman and contract toolpusher.

#### 9. <u>Wellsite Layout</u>:

- a. The wellpad layout shows the drillsite layout as staked.
- b. The reserve pit will be fenced on three sides before drilling begins. The fourth side will be fenced when the drilling rig leaves location.
- c. The reserve pit will be lined (8 mil material).

#### 10. Plans for Restoration of the Surface:

- a. Backfilling, levelling, and contouring are planned as soon as all pits have dried. Waste disposal and spoiled materials will be buried or hauled away immediately after drilling is completed. If production is obtained, the unused area will be restored as soon as possible.
- b. The soil banked material will be spread over the area. Revegetation will be accomplished by planting mixed grasses as per formula by BLM. Revegetation is recommended for road area, as well as around the drill pad.
- c. The reserve pit will be fenced during drilling operations. Fencing will be maintained until levelling and cleanup are accomplished.
- d. If any oil is in the pits and is not immediately removed after operations cease, the pit containing the oil or other adverse substances will be flagged overhead or covered with mesh.
- e. The rehabilitation operations will begin after the drilling rig is removed. Removal of oil or other adverse substances will begin immediately or area will be flagged and fenced. Other cleanup will be done as needed. Planting and revegetation will be done between July 15 and September 15.

#### 11. Other Information:

- a. General topography: Shown on Vicinity Lease Map. The terrain at the wellsite is gently rolling hills. Vegetation is primarily sage brush and natural grasses.
- b. Animal life: Prairie dogs, domestic livestock, rabbits and native rodents and predators.
- c. Dwellings (nearest): Approximately 4-1/2 miles.
- d. General location: Approximately 8.5 miles west of Lakewood, New Mexico.
- e. Drainage: Internal
- f. Surface Owner: The surface is owned by the Federal Government

## A. P. D. (cont.) Thirteen Point Surface Use Plan North Indian Basin Unit No. 2

12. Operator Representatives:

David Nordt Drilling, Completion, & Workover Superintendent P. O. Box 552 Midland, TX 79702 800/351-1417 915/682-1626

#### 13. <u>Certification</u>:

I hereby certify that I, or someone under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions that presently exist; that the statements made in this plan are, to the best of my knowledge and belief, true and correct; and that the work associated with the operations proposed herein will be performed by MARATHON OIL COMPANY and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

DLP. Nordt

-4

Date

#### DRILLING PROGRAM MARATHON OIL COMPANY

#### North Indian Basin Unit No. 2

## Estimated KB Elevation: 3794

	TOP		BASE		FLUID
FORMATION CONTENT	MEASURED	SUBSEA	ME4	SURED SUI	BSEA
Morrow	9,098'	-5304'	9,500'	-5706'	gas
Barnett	9,500'	5706'	9,758	-5964'	gas,water
Mississipian	a' = = a'	5964'	10,148'	-6354'	
- Woodford	10,148'		10,210'	-6416	•
- Devonian		-6416	····	-7366'	
	-EST SBHP	• • • •••• • • • • • • • • • • • • • •	т ѕвнт н25	SIGNIFIC	ANCE
FORMATION	PSIG PPG	EMW DE	<u>Gf</u> <u>PPN</u>	<u>t (obj. marke</u>	<u>er, etc.)</u>
Morrow	3639 9.4		500	marker	
Barnett	3800 9.4			marker	
Mississipian	3903 9.4			marker	
Woodford	4059 9.4				
Devonian	3063 8.3			objective	

#### 2. See (1) above.

1.

If any unexpected water or mineral bearing zones are encountered, they will be reported, evaluated, and protected as circumstances and regulations require.

#### 3. Pressure Control Equipment:

<u>7" Production</u>: 1" 3M annular tested to 200#/2000#, 11" 3M dual rams, choke manifold and mud cross, tested to 300#/3000#.

Flow indicator, PVT, H<sub>2</sub>S Sensors, air packs, stroke counter, rotating head.

BOP systems will be consistent with API RP 53. Blowout preventers will be installed prior to drilling the surface casing plug and will remain in use until the well is completed or abandoned. Preventers will be inspected and operated at least daily to ensure good mechanical working order, and this inspection recorded on the daily drilling report. Preventers and casing will be pressure tested before drilling casing cement plugs.

Upper and lower kelly cocks with valve handle and safety valve and subs to fit all drillstring connections in use will be available on rig floor.

#### A. P. D. (cont.) Thirteen Point Surface Use Plan North Indian Basin Unit No. 2

#### **Test Frequency**

4.

- When installed. 1.
- Anytime a pressure seal is broken (test confined only to affected equipment). 2.
- At least every 20 days. 3.
  - Blind and pipe rams shall be activated each trip but not more than once/day.

. . . .

#### Casing and Cement Program: 4.

		HOLE <u>SIZE</u>	CSG <u>SIZE</u>	WT. PPF	GRADE	THREADS COUPLINGS	NEW USED
 7800' 10 10000' 11	 		4.5" Open He		L-80	FL4-S	New

#### 5. Cementing Summary

4 1/2" liner, 7800' - 10,000' ECP tool depth - above landing collar

Slurry: Class "H" with 5% CSE + 1% CF-14, 3% WL-1P

FROM DEPTH	TOC	HOLE <u>SIZE</u>	* EXCESS	YIELD	DENSITY	QTY <u>SX</u>
10,000'	9650'	6.125	50	1.28	15.33	100
9,650'	8006'	ANN	50	1.28	15.33	65
8,006'	7800'	CSG	0	1.28	15.33	50

The 4 1/2" liner will be run below the Woodford Shale to ensure that the ECP will isolate the Woodford from the Devonian.

#### Centralizer Program:

4 1/2" Conventional centralizers middle of 1st joint, then every joint to 9000', and 1 centralizer every 4th joint thereafter to 7800'.

## A. P. D. (cont.) Thirteen Point Surface Use Plan

North Indian Basin Unit No. 2

5. <u>Mud Program</u>:

DEPTH FROM IQ	MUD TYPE	WEIGH (PPG)	r <u>yıs</u>	WL <u>CC</u>	ADDITIVES	VISUAL MONTR.
8006' 10000'	cut brine	9.2	32.36	<20	Salt gel, starch, caustic	Steel Pits
10000' 11000'	freshwater	8.4	28.30	N/C	Gel	Steel Pits

Sufficient quantities of additives will be on location to maintain above mud properties for any anticipated well conditions.

Logging, Testing & Coring Programs:

INTE LOG/TEST/CORE/MUDLOG/OTHER	RVAL- FROM	<u>T0</u>	REMARKS
DLL/MSFL/GR	TD	8000'	
LDT/CNL/GR/CAL	TD	8000'	
MUD LOGGER	NONE	·	

NO CORES OR DST'S

......

6.

## 7. <u>Abnormal Pressures, Temperatures or Potential Hazards</u>: None anticipated.

### 8. <u>Other Information</u>:

Anticipated Starting Date: As soon as possible.

Duration of Well: drilling - 18 days, completion - 10 days.

.7.





# MARATHON OIL COMPANY

# H2S DRILLING OPERATIONS PLAN

## i. HYDROGEN SULFIDE TRAINING

All contractors and subcontractors employed by Marathon Oil Company will receive or have received training from a qualified instructor within the last twelve months in the following areas prior to commencing drilling operations on this well.

- 1. The hazards and characteristics of hydrogen sulfide (H2S)
- 2. Safety precautions
- 3. Operations of safety equipment and life support systems

In addition, contractor supervisory personnel will be trained or prepared in the following areas:

- 1. The effect of H2S on metal components in the system. If high tensile tubulars are to be used, personnel will be trained in their special maintenance requirements.
- 2. Corrective action and shut-down procedures when drilling or reworking a well, blowout prevention and well control procedures, if the nature of work performed involves these items.
- 3. The contents and requirements of the contingency plan when such plan is required.

All personnel will be required to carry documentation of the above training on their person.

1. H2S EQUIPMENT AND SYSTEMS

1. Safety Equipment

The following safety equipment will be on location.

A. Wind direction indicators as seen in attached diagram.

B. Automatic H2S detection alarm equipment (both audio and visual).

C. Clearly visible warning signs as seen on the attached diagram. Signs will use the words "POISON GAS' and "CAUTION" with a strong color contrast.

D. Protective breathing equipment will be located in the dog house and at briefing areas as seen in the attached diagram.

### 2. WELL CONTROL SYSTEMS

A. Blowout Prevention Equipment

Equipment includes but is not limited to:

a. pipe rams to accomodate all pipe sizes

b. blind rams

- c. choke manifold
- d. closing unit

Auxillary equipment added as appropriate includes:

- a. annular preventor
- b. rotating head
- c. mud- gas separator
- d. flare line and means of ignition
- e, remote operated choke

#### B. Communication

The rig contractor will be required to have two-way communication capability. Marathon Oil Company will have either land-line or mobile telephone capabilities.

C. Mud Program

The mud program has been designed to minimize the volume of H2S circulated to surface. Proper mud weight, safe drilling practices, and the use of H2S scavengers when appropriate will minimize hazards when penetrating H2S bearing zones.

D. Drill Stem Test intervais are as follows:

 DST No. 1
 \_\_\_\_\_ft. to \_\_\_\_\_ft.

 DST No. 2
 \_\_\_\_\_ft. to \_\_\_\_\_ft.

 DST No. 3
 \_\_\_\_\_ft. to \_\_\_\_\_ft.

Drill Stem Testing Safety Rules are attached.

#### III. WELL SITE DIAGRAM

A complete well site diagram including the following information is attached.

- 1. Rig orientation
- 2. Terrain
- 3. Briefing areas
- 4. Ingress and egress
- 5. Pits and flare lines
- 6. Caution and danger signs
- 7. Wind indicators and prevailing wind direction





